

03650.002191

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
YOSHIMASA OKAMURA, et al.)
Application No.: Not Yet Assigned)
Filed: Herewith)
For: FABRICATION OF NANOSCALE)
THERMOELECTRIC DEVICES :

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September 19, 2003

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Commissioner for Patents
P.O. Box 1450
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INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed below and on the enclosed Forms PTO-1449. A copy of each document so listed is enclosed.

- (1) U.S. Patent Publication No. US 2001/0001961 A1
- (2) U.S. Patent Publication No. US 2003/0041892 A1
- (3) U.S. Patent Publication No. US 2003/0047204 A1
- (4) U.S. Patent No. 4,971,632
- (5) U.S. Patent No. 4,983,225
- (6) U.S. Patent No. 5,286,304
- (7) U.S. Patent No. 5,837,929
- (8) U.S. Patent No. 5,921,087

- (9) U.S. Patent No. 6,127,619
- (10) U.S. Patent No. 6,207,887
- (11) U.S. Patent No. 6,214,738
- (12) U.S. Patent No. 6,231,744
- (13) U.S. Patent No. 6,232,542
- (14) U.S. Patent No. 6,359,288
- (15) U.S. Patent No. 6,441,295
- (16) U.S. Patent No. 6,441,296
- (17) U.S. Patent No. 6,605,772
- (18) JP 63-020880
- (19) JP 11-298051
- (20) JP 2001-282396
- (21) "Introduction to Thermoelectrics", website,
<http://www.thermoelectrics.com/introduction.htm>, site visited July 28, 2003.
- (22) M.S. Dresselhaus, et al., "The Promise of Low Dimensional Systems for Thermoelectric Applications," website,
<http://www.osti.gov/fcvtdarpa2002/mdresselhaus.pdf>, site visited September 18, 2003.
- (23) "THERMOELECTRICITY" website,
http://www.nanothermel.org/public_main.htm, site visited July 28, 2003.
- (24) "Stacy Group" Stacy Group Thermoelectrics Research, website,
<http://www.cchem.berkeley.edu/~amsgrp/thermoelectrics.html>, site visited August 29, 2003.
- (25) "Design of Advanced Materials" Stacy Group Home, website, <http://www.cchem.berkeley.edu/~amsgrp/index.html>, site visited July 28, 2003.
- (26) "Eneco Technology" r-layout2, website,
<http://www.eneco-usa.com/technology/content.htm>, site visited July 28, 2003.
- (27) "Hi-Z Technology" Hi-Z TECHNOLOGY, INC., website, <http://www.hi-z.com/>, site visited July 28, 2003.

(28) "Marlow Industries Inc." thermoelectric manufacturer Marlow Industries inc., website, <http://www.marlow.com/>, site visited July 28, 2003.

(29) "TELLUREX Z-Max thermoelectric modules for power generation..." Tellurex Corporation, website, <http://www.tellurex.com/>, site visited July 28, 2003.

(30) "A Quantum Leap in Power Generation" Power Chips plc, website, <http://www.powerchips.gi/>, site visited July 28, 2003.

(31) "The Science Behind Power Chips™, A Basic Introduction" Power Chips plc, website, <http://www.powerchips.gi/technology/overview.shtml>, site visited July 28, 2003.

(32) M.S. Dresselhaus, et al., "INVESTIGATION OF LOW-DIMENSIONAL THERMOELECTRICS", *Symposium Proceeding*, Technomoic Publishing Co., pp. 1-13.

The Examiner is urged to study this information in its entirety and to form an independent determination of the materiality of the information to the claimed invention. Additionally, the Examiner is requested to indicate that the enclosed information has been considered by initialing the appropriate portion of Forms PTO-1449.

Applicants' undersigned attorney may be reached in our Costa Mesa, California office by telephone at (714) 540-8700. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

Attorney for Applicants

Registration No. _____

FITZPATRICK, CELLA, HARPER & SCINTO
30 Rockefeller Plaza
New York, New York 10112-3801
Facsimile: (212) 218-2200

FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				ATTY DOCKET NO. 03650.002191		APPLICATION NO.	
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)				APPLICANT YOSHIMASA OKAMURA			
				FILING DATE Herewith			GROUP
U.S. PATENT DOCUMENTS							
*EXAMINE R		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,971,632	11/20/1990	Rowe	136	212	
		4,983,225	01/08/1991	Rowe	136	201	
		5,286,304	02/15/1994	Macris, et al.	136	201	
		5,837,929	11/17/1998	Adelman	136	225	
		5,921,087	07/13/1999	Bhatia, et al.	62	3.2	
		6,127,619	10/03/2000	Xi, et al.	136	203	
		6,207,887	03/27/2001	Bass, et al.	136	201	
		6,214,738	04/10/2001	Aiba, et al.	438	707	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
		63-20880	01/28/1988	JAPAN			Abstract
		11-298051	10/29/1999	JAPAN			Abstract
		2001-282396	10/12/2001	JAPAN			Abstract
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
		U.S. Patent Publication No. US 2001/0001961 A1					
		U.S. Patent Publication No. US 2003/0041892 A1					
		U.S. Patent Publication No. US 2003/0047204 A1					
EXAMINER				DATE CONSIDERED			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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				FILING DATE Herewith			GROUP

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,231,744	05/15/2001	Ying, et al.	205	324	
		6,232,542	05/15/2001	Hiraishi, et al.	136	201	
		6,359,288	03/19/2002	Ying, et al.	257	14	
		6,441,295	08/27/2002	Hiraishi, et al.	136	201	
		6,441,296	08/27/2002	Hiraishi, et al.	136	201	
		6,605,772	08/12/2003	Harman, et al.	136	236.1	

FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)		
		"Introduction to Thermoelectrics", website, http://www.thermoelectrics.com/introduction.htm , site visited July 28, 2003.
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		"Eneco Technology" r-layout2, website, <u>http://www.eneco-usa.com/technology/content.htm</u>, site visited July 28, 2003.					
		Marlow Industries Inc." thermoelectric manufacturer Marlow Industries inc., website, <u>http://www.marlow.com/</u>, site visited July 28, 2003.					
		Hi-Z Technology" Hi-Z TECHNOLOGY, INC., website, <u>http://www.hi-z.com/</u>, site visited July 28, 2003.					
		"TELLUREX Z-Max thermoelectric modules for power generation..." Tellurex Corporation, website, <u>http://www.tellurex.com/</u>, site visited July 28, 2003.					
		"A Quantum Leap in Power Generation" Power Chips plc, website, <u>http://www.powerchips.gi/</u>, site visited July 28, 2003.					
		"The Science Behind Power Chips™, A Basic Introduction" Power Chips plc, website, <u>http://www.powerchips.gi/technology/overview.shtml</u>, site visited July 28, 2003.					
		M.S. Dresselhaus, et al., "INVESTIGATION OF LOW-DIMENSIONAL THERMOELECTRICS", <i>Symposium Proceeding, Technomoic Publishing Co., pp. 1-13.</i>					
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